7,		IPA					Approv U.S. Patent and Trademi	PTO/SB/08a (0 red for use through 07/31/2003. OMB 0651 ark Office; U.S. DEPARTMENT OF COMM!	-0031 FRCE
S	ubstitute	oNorm 1449/PTO				Co	MPLETE IF KNOWN	COMMI	
	- 1	4 5 my 2)	Application N	lumber		10/62	24,364		
INFO	SMATH	MAR 1. 5 2004 S) ON DISCLOST RE	Filing Date			July 22, 2003			
STATE	MEN	BY APPLICANT(S)	First Named	Inventor		Steph	nen P. Rukavina, et a	l	
(Use	(Use as many share macessary)					Unkn	own		
·			Examiner Na	-		Unkn			
	Sh	eet 1 of 3	Attorney Doo	ket No.		RYLZ	2 00923		
			U.S. P.	ATENT	DOCUN	/ENTS	<u> </u>		
Examiner Initials*	Cite No.	Document No. Number-Kind Code (d known)	Publication Date MM-DD-YYYY		Арг	Name o	of Patentee or f Cited Document	Pages, Columns, Lines, Wher Relevant Passages or Relevan Figures Appear	
SK	AA	US-1,459,946	6/26/23		Cama	rata e	t al.		
	AB	US-1,465,285	8/21/23		Peter	son			
	AC	US-2,619,209	11/25/52		Horn				
	AD	US-2,814,063	11/26/57		Ripple	9			
	AE	US-2,950,772	8/30/60		Dosta	l et al.			
	AF	US-3,061,858	11/6/62		C.A. [	Dostal	et al.		
	AG	US-3,218,876	11/23/65		Berge	er			
	AH	US-3,220,043	1		Lamp	е			
	Al	US-3,451,495	6/24/69		Bayle	ss et a	al.		
	AJ	US-3,581,591	6/1/71			er et al			
	AK	US-3,618,687	11/9/71			e et al.			
V	AL	US-3,823,791	7/16/74		Shele				
			FOREIGN	IDATE	<u> </u>		NTC		
F	Cit-	Service Below Dec				<del></del>		Pages Columns Lines	T
Examiner Initials*	Cite No.	Foreign Patent Doc			lication Date N-DD-YYYY		Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant Passages or	'
	1000	Country Code-Number Kind	d Code (Il known)	<u>.</u>		-	Document	Relevant Figures Appear	╀—
	AM					_			╁
	AO		····						+
	AP								+
	<u>, I , , , , , , , , , , , , , , , , , ,</u>	OTHER PRIC	OR ART - NO	N PATE	ENT LIT	ERAT	URE DOCUMENT	s	
Examiner	Cite	<u> </u>					the article (whe approp		Т
Initials*	No.		ine, journal, seri	al, sympo:	sium, cata	alog, etc	c.), date, page(s), volume where published		'
SK	AQ	Website: Hitachi pow Monolithic IC, ECN303	er semicon 0F/3031F, P	ductor I DE-303	nome p 0F/31F-	oage: -0, pag	http://www.hitachi.o	com.jp/pse, High-Voltage	
	AR								I
	AS								
	AT.								
	AU								
	AV								

·		1	
Examiner Signature	/Shay Karls/	Date Considered	11/30/2006

	Sub	stitute f	for form 1449/PTO				COMPLETE IF KNOWN		
			ŀ	Application N	lumber		10/624,364 July 22, 2003		
			5.00. 505	Filing Date	<del></del>				
	INFORMATION DISCLOSURE			First Named	Inventor		Stephen P. Rukavina, et	al.	
			BY APPLICANT(S)	Art Unit			Unknown		_
	(Use a	s many	sheets as necessary)	Examiner Na	me		Unknown		
		She	eet 2 of 3	Attorney Doc	ket No.	$\overline{}$	RYLZ 2 00923		
		-		U.S. P	ATENT [	OCUN	IENTS		
	Examiner Cite Document No. Number-Kind Code (1 known)		Document No. Number-Kind Code (# known)	Publication MM-DD-Y			Name of Patentee or licant of Cited Document	Pages, Columns, Lines, Wher Relevant Passages or Relevan Figures Appear	
SK		ВА	US-3,854,164	12/17/74		Schm	itz		
1		ВВ	US-3,938,216	2/17/76		Schm	itz et al.		
		ВС	US-3,962,746	6/15/76			on et al.		
一十	$\neg \dagger$	BD	US-4,249,281	2/10/81	<del></del>	Meyer	<del></del>		
$\overline{}$	一十	BE	US-4,342,369	8/3/82		Ranso	<del> </del>		
		BF	US-4,347,643	9/7/82	+	Bair, I			
	<del>  </del> -						<del></del>		
∸╁		BG	US-4,434,865	3/6/84		•	dy et al.		
	-	ВН	US-4,615,071	10/7/86		Frohb			
		BI	US-4,624,027	11/25/86		Martin			
		BJ	US-4,766,640	8/30/88		Martin			
$\rightarrow$		BK	US-5,042,109	8/27/91		Steph	ens		_
•		BL	US-5,115,537	5/26/92		Meyer	et al.		
				FOREIGN	PATEN	T DOC	UMENTS		_
Exam		Cite	Foreign Patent Doc	cument Publica		ion Date		Pages, Columns, Lines,	T
Initia	ls"	No.	Country Code-Number Kind	d Code (if known))	MM-DE	)-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	.
		ВМ	-						T
•		BN							T
		во							T
		BP							T
		•	OTHER PRIC	OR ART - NO	N PATE	NT LIT	ERATURE DOCUMENT	rs	-
Exami Initial		Cite No.	Include name of the author (in CAPITAL LET (book, magazine, journal, serial, symposiu				title of the article (when appring to the art	opriate), title of the item neissue number(s),	-
	-+1	BQ		F-2-	,				T
	-	BR			<del></del>				十
	1	BS				<del></del>			†
		вт					<del></del>		T
		BU							T
	Ti	BV			·				T

Examiner Signature	/Shay Karls/	Date Considered	11/30/2006

Si	ubstitute 1	for form 1449/PTO	A - licabion N			COMPLETE IF KNOWN			
			Application N	lumber		10/624,364			
INFOR	RMATIC	ON DISCLOSURE	Filing Date			July 22, 2003			
STATE	MENT	BY APPLICANT(S)	First Named Inventor			Stephen P. Rukavina, et al.			
(Use	as many	sheets as necessary)	Art Unit Examiner Na			Unknown		<del></del>	
· · · · · · · · · · · · · · · · · · ·	Ch	eet 3 of 3				Unknown	0000		
	Sni	eet 3 or 3	Attorney Doc	kei No.		RYLZ 2 00	<u> </u>		
			U.S. PA	ATENT	DOCUM	MENTS			
Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication MM-DD-Y		App	Name of Pate licant of Cited		Pages, Columns, Lines, Wher Relevant Passages or Relevan Figures Appear	
SK	CA	US-5,269,042	12/14/93		Steph	ens et al.			
	СВ	US-5,285,550	2/15/94	_	Meye	r et al.			
	СС	US-5,335,740	8/9/94		Meye	r et al.			
	CD	US-5,339,916	8/23/94		Louis				
	CE	US-5,406,674	4/18/95		Lawte	r et al.		***	
	CF	US-5,504,971	4/9/96		McCc	rmick			
	CG	US-6,061,869	5/16/00		Ettes et al.				
$-\Psi$	СН	US-6,131,238	10/17/00		Weber et al.				
	CI	US-							
	CJ	US-							
	СК	US-	<del> </del>						_
	CL	US-			<u> </u>				
<u> </u>	000	00-	<u></u>		<u> </u>		1		
· · · · · · · · · · · · · · · · · · ·			FOREIGN	PATE	NT DOC	UMENTS			
Examiner	Cite	Foreign Patent Doc	ument		tion Date		of Patentee or	Pages, Columns, Lines,	т
Initials*	No.	Country Code-Number Kind	Code (if lanown))	MM-D	D-YYYY		cant of Cited ocument	Where Relevant Passages or Relevant Figures Appear	-
	СМ								
	CN		****						Γ
	СО								Γ
	СР								
•		OTHER PRIC	R ART - NO	N PATE	NT LIT	ERATURE	DOCUMENT	s	
Examiner Initials*	Cite No.		ne, journal, seria	al, sympos	sium, cata		e, page(s), volum	riate), title of the item eissue number(s),	Ť
	CQ								Г
	CR								
	CS								
	СТ								
	CU						•		
	CV					·			

Examiner Signature	/Shay Karls/	Date Considered	11/30/2006

PTO/SB/08 (07-05)
Approved for use through 07/31/2006. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contain s a valid OMB control number.

Modified by Fey Sharpe

Su	bstitute f	or form 1449A/PTO		Complete if Known				
	- 1	SEP 2 7 2006	Application I	Number		10/624,364		
			Filing Date			July 22, 2003		
INFOR	INFORMATION DISCLOSUSE STATEMENT BY APPLIES NT(S)		First Named	Inventor		Stephen P. Rukavina, et al.		
SIAIE	VIENI	BT LETTE ADES PART (3)	Art Unit		1	1744		
			Examiner Na	ame		BALSIS, Shay L.		
	Sh	eet 1 of 3	Attorney Do	cket No.		RYLZ 2 00923		
			U.S. P	ATENT	DOCUM	IENTS		
Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publicatio MM-DD-			Name of Patentee or Applicant of Cited Document		
SK	AA	US-1,356,663	10/1920		Spieln	nan		
	AB	US-1,447,814	3/1923		Paulu	8		
	AC	US-1,914,834	6/1993		Otto			
	AD	US-1,953,340	4/1934	-	Doem	ling		
	AE	US-3,074,089	1/1963		Brown	, Jr.		
	AF	US-3,100,907	8/1963		Schwe			
	AG	US-3,896,892	7/1975	-	Kohls,	et al.		
	AH	US-3,942,604	3/1976			lack III		
	Al	US-4,052,767,	10/1977		Dútch	Dutcher		
	AJ	US-4,099,291	7/1978		Bower	Bowerman		
	AK	US-4,111,372	9/1978		Hicks,	ks, et al.		
	AL	US-4,245,370	1/1981		Baker	er		
	АМ	US-4,268,769	5/1981		Dorne	r, et al.		
	AŃ	US-4,384,386	5/1983	1.7	Dorne	r, et al.		
	AO	US-4,479,078	10/1984		Kidd,	et al.		
	· AP	US-4,955,106	9/1990		Stein,	et al.		
	AQ	US-5,030,864	7/1991		Van H	out, et al.		
	AR	US-5,056,175	10/1991		Stein,	et al.		
V	AS	US-5,077,823	12/1991		Barry,	et al.		
			FORFICE	N PATEN		UMENTS		
Examiner Initials*	Cite No.	Foreign Patent Docu	ument	Publica	tion Date D-YYYY	Name of Patentee or Applicant of Cited Document		
SK	AT	EP 0 947 155		6/1999	·	Matsushita Electric Ind. Co. Ltd.		
	AU	JP 54-118659		9/1979		Toshiba Corp.		
	AV	JP 01166730		6/1989		Matsushita Electric Ind. Co. Ltd.		
V	AW	JP 07327884		12/199	5	Matsushita Electric Ind. Co. Ltd.		
		OTHER	R - NON PA	TENT LI	TERATI	JRE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of t	he author (in C	APITAL LE	TTERS),	title of the article (when appropriate), title of the item log, etc.), date, page(s), volumeissue number(s), untry where published		
SK	AX	Switched Reluctance M				2001, http://www.fleadh.co.uk/srm.htm		

Examiner Signature	/Shay Karls/	Date Considered	11/30/2006

	Sut	stitute fo	or form 1449A/PTO	<del>,,</del>			Complete if Known		
			<u>†</u>	Application N	lumber	T	10/624,364		
l		~ .	N DICCLOSURE	Filing Date			July 22, 2003		
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)			First Named	Inventor		Stephen P. Rukavina, et al.		
51/	A I EN	MENI	BY APPLICANT(S)	Art Unit			1744		
			- İ	Examiner Na	me		BALSIS, Shay L.		
		She	eet 2 of 3	Attorney Doo			RYLZ 2 00923		
				U.S. P.	ATENT	DOCUM			
Exan Initi		Cite No.	Document No. Number-Kind Code (# known)	Publication MM-DD-			Name of Patentee or Applicant of Cited Document		
S	K	ВА	US-5,115,537	5/1992		Meyer	, et al.		
		вв	US-RE34,286 E	6/1993	•	Toyos	hima, et al.		
		вс	US-5,445,886	10/1995		Glenn	, et al.		
		BD	US-5,548,173	8/1996		Steph	enson		
	•	BE	US-5,831,261	11/1998	•	Plesko			
		BF	US-5,918,728	7/1999		Sÿver	son :		
		BG	US-5,923,111	7/1999		Eno, e	tal. · 'k a namen na		
·		вн	US-5,940,927	8/1999 H		Hager	marck, et al.		
		BI	US-5,944,635	8/1999		Butler	Jr.		
		BJ	US-5,974,622	11/1999		Louis,	et al.		
		вк	US-6,102,022	8/2000	-	Schve			
		BL	US-6,108,862	8/2000		Frede	rick, et al.		
		ВМ	US-6,169,258 B1	1/2001		Roney	, et al.		
		BN.	US-6,206,181 B1	3/2001		Syvers	son		
		во	US-6,323,570 B1	11/2001		Nishin	nura, et al.		
	,	BP	US-6,400,048 B1	6/2002	-	Nishin	nura, et al.		
1		BQ	US-6,449,792 B1	9/2002		Myers			
				FOREIGN	I PATEN	NT DOC	UMENTS		
	niner	Cite	Foreign Patent Docu	ument	Publica	tion Date	Name of Patentee or		
Initi	als*	No.	Country Code-Number Kind	Code (if known))	MM-D	D-YYYY	Applicant of Cited Document		
5	K	BR	JP 11042184		2/1999	)	Matsushita Electric Ind. Co. Ltd.		
S		BS	JP 11-313786		11/199	9	Matsushita Electric Ind. Co. Ltd.		
							JRE DOCUMENTS		
	niner als*	Cite No.	include name of t (book, magazi	ne, ioumal, seri	al, sympos	sium, catal	title of the article (when appropriate), title 6the item log, etc.), date, page(s), volumeissue number(s), untry where published		
	SK .	вт	challenge/tidsp97/tidsp	97/htm			, 2001, http://pemclab.cn/nctu.edu.tw/W3dsp/dsp-		
	SK	BU	Oxford Science Publica Permanent-Magnet and	ations, Mono d Reluctance	graphs i Motor [	n Electr Orives",	cal and Electronic Engineering No. 21, "Brushless T.J.E. Miller, Cover and pp. 81, 120 and 177.		

Examiner /Shay	Karls/	Date Considered	11/30/2006
----------------	--------	--------------------	------------

Substitute for form 1449A/PTO						Complete if Known		
		Ī	Application Number			10/624,364		
INFOR	84 A T1/	ON DISCLOSURE	Filing Date			July 22, 2003		
** *	INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)			First Named Inventor		Stephen P. Rukavina, et al.		
SIAIE	STATEMENT BY APPLICANT(S)					1744		
				ame		BALSIS, Shay L.		
	She	et 3 of 3	Attorney Do			RYLZ 2 00923		
			U.S. P	ATENT	DOCUM			
Examiner Initials*	Cite No.	Document No. Number-Kind Code (f known)	Publicatio MM-DD-			Name of Patentee or Applicant of Cited Document		
SK	CA	US-6,484,352	11/2002		Bobros	sky, et al.		
	ÇВ	US-6,658,692	12/2003		Lenkie	ewicz, et al.		
	CC	US-6,757,934	7/2004		Park			
	CD	US-6,741,051 B1	5/2004		Chu	·		
	CE	US-6,785,933	9/2004		Kim, e	t al.		
3.	CF	US-6,772,476	8/2004	· .	Park			
	CG	US-6,757;934	7/2004		Park			
	ĊH	US-6,848,147 B2	2/2005		Syvers	son, et al.		
	ō	US-7,000,285 B2	2/2006		Conne	ner, et al.		
	CJ	US-7,043,794 B2	7/2004		Conne	er, et al.		
	CK	US-7,062,816 B2	6/2006		Kaspe	sper, et al.		
	CL	US-7,076,830 B2	7/2006		Conne	er, et al.		
	СМ	US-2002/0170137 A1	11/2002		Coate	s, et al.		
	CN	US-2004/0000023 A1	1/2004		Hitzelt	perger, et al.		
	СО	US-2004/0134019 A1	7/2004		Cipolla	a, et al.		
	СР	US-2005/0015918 A1	1/2005		Rukav	ina, et al.		
V	CQ.	US-2005/0071056 A1	3/2005		Tondra	a, et al.		
			FOREIGN	N PATE	NT DOC	UMENTS		
Examiner	Cite	Foreign Patent Docu	ument		ition Date	Name of Patentee or		
' Initials*	' No.	Country Code-Number Kind	Code (if known)	1 MM-D	D-YYYY	Applicant of Cited Document		
SK	CR	JP 1-185233		7/1989	1			
SK	CS	JP 2000-354569		12/200	0	Matsushita Electric Ind. Co. Ltd.		
SK	CT	JP 2001-000371		1/2001		Imai et al.		
		OTHER	R - NON PA	TENT LI	TERATI	JRE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of (book, magazi	ne, journal, seri	ial, sympos	sium, catal	title of the article (when appropriate), title of the item T log, etc.), date, page(s), volumeissue number(s), suntry where published		
-	cu							
L	·	L						

Examiner Signature	/Shay Karls/	Date Considered	11/30/2006